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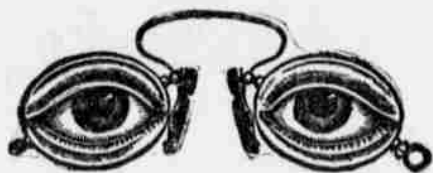
HONOLULU.

## Public Auction HORSES

On Saturday, June 17th, beginning at 10 A. M., at the stable of the Maui Agricultural Co., Paia, I will sell at Public Auction about 50 head of horses—broken and unbroken—for saddle or harness. The property of H. W. Rice.

W. O. AIKEN,  
Auctioneer.

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Bakes, boils, roasts, toasts. More efficient than your wood or coal stove and costs less to operate.  
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In 1, 2, 3 and 4-  
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or without oven.  
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models with  
Fireless Cooking  
Ovens.

## VEGETABLE GROWING IN HAWAII

(This is one of a series of papers which have been prepared by the Extension Division of the Hawaii Experiment Station, under direction of F. G. Krauss, of Hailu, who has charge of this division. Other papers will be published from time to time, and should prove of especial interest to Maui people who may expect to grow vegetables for the County Fair, this fall. Mr. Krauss says: "We have been for some 10 years collecting this data and think it may prove helpful to the prospective gardener in making out his selection of seeds.")

### INSECT PESTS AND PLANT DISEASES.

Nine out of every ten persons who have attempted to grow vegetables in Hawaii will tell you that the insect pests are or were their greatest hindrance to success. As a matter of fact, it is estimated that the annual loss to agriculture in the United States caused by injurious insects and fungus diseases amounts to fully twenty-five per cent of the entire crops. This means an annual loss of more than five hundred millions of dollars. On the other hand, the best authorities assert that fully seventy-five per cent of this enormous loss could be prevented by proper treatment. While the lay gardener cannot perhaps know the life history or transformations through which an insect passes, he can at least acquaint himself with a few simple laws and principles which govern the control of the more important classes of insects and diseases of economic importance. An extensive literature is available from the Experiment Stations and U. S. Department of Agriculture, and these may be had free for the asking.

Most plant diseases are caused by fungi which break down the plant tissue and thus sap the vitality of the plant. By the application of a fungicide, substances used for the control of fungi growth, diseases may often be warded off as in the case of blight on potatoes and Anthracnose or "spot" on beans. The treatment should be as a preventative measure, since there are few plant diseases, once they have taken hold, for which there is a remedy.

The principle upon which fungicides are applied is to treat the crops before they become infested, the object being to prevent the lodgement and development of the spores which cause the disease. So long as the tissue of the plant is covered with a film of the proper fungicide, no fungi can develop upon them. In general practice it has been found that applying the fungicide at regular intervals of about 10 days to two weeks many of the commoner diseases may be held entirely in check. Bordeaux mixture has been found the best all-round fungicide for blights or spore bearing diseases, and a stock solution should always be kept on hand. It is made by combining copper sulphate, fresh lime and water. Its efficiency is dependent upon proper preparation and every care should be taken to insure proper mixing.

The writer uses the following formula which is in the most general use: Copper Sulphate 4 pounds  
Fresh Burned Lime 4 pounds  
Water to make 50 gallons  
Dissolve the copper sulphate in 25 gallons of water, using a wooden vessel for the purpose. Place the copper sulphate in a coarse cloth bag and suspend in the water so that the material is just covered. Dissolve the burned lime in another vessel, using only a small amount of water at first as in preparing whitewash. When 25 gallons of water have been added, the resultant "milk of lime" and copper-sulphate solution should be poured together into a third vessel, both materials having previously been strained. It is of utmost importance that the two solutions be poured into a third vessel together and in the same proportions otherwise the proper chemical combination will not take place. The Bordeaux mixture thus prepared

is now ready to be applied without further dilution. The 50 gallons is sufficient to spray from one fourth to one-half acre one time. For making the concentrated stock solutions, see Bulletin No. , Hawaii Experiment Station or any standard text.

Bacterial diseases in plants, as in animals and man in contrast to the external fungus diseases, develop and multiply entirely within the plant. Thus, the application of fungicides do not affect the bacteria and spraying is in consequence useless. Scientists advise the practice of rotation and the development of resistant varieties for the control of such diseases.

For our purpose insect pests may be divided into the classes dependent upon their mode of action and successful control is dependent upon this knowledge. Leaf eating insects in Hawaii are well represented by the cut-worm family and various caterpillars as well as the Japanese Beetle. This class of insects can be destroyed by either an external irritant insecticide or a stomach poison insecticide. The last named treatment is the one most followed. For cut-worms, the most serious pest with which the Hawaiian planter has to contend, poisoned bait is a very effective remedy. For the small home garden, corn meal or flour may be mixed with a small amount of Paris Green—a teaspoonful of the poison to a quart of meal, which has been previously moistened with just enough sweetened water to make the mass of a flaky consistency. This is then strewn thinly along the rows of young seedlings, where the pest finds most ready access to the bait.

For application on a large scale we mix a bushel of bran with a bushel of wheat middlings, flour or corn meal. This is moistened with two quarts of molasses which is diluted with two quarts of water making a gallon of liquid. The moistened mass is then spread out thinly and over it is then sprinkled one and half to two pounds of Paris Green. It should be thoroughly mixed and passed through a sieve to break up lumps and leave the mass flaky. The amounts specified above are sufficient to cover about an acre.

The Japanese beetle does not appear to take the poisoned bait. While tedious and costly, many have found that hand picking of the beetle at night is feasible. The horticultural Division of the Hawaii Experiment Station has been conducting experiments in the use of Arsenate of Lead spray against the pest with promise of success.

Sucking insects such as green and black aphids, commonly called plant lice, cannot be destroyed by internal poisons, but are successfully combated by external contact with poisons or irritants. For both aphids and mealy bug, both of which pests we have frequently to contend with, we have found no remedy more effective or practical to use than tobacco decoctions, although whale oil or even common soap solutions are sometimes quite effective. The active principle of tobacco is nicotine. This can be bought in highly concentrated form under various trade names as "Nicotene", "Nicotine 40", "Nicoticide", etc. A dilution of 500 parts water to one part of the nicotine has been found both cheap and effective and of course absolutely safe to foliage. For the mealy bug we have found common whale oil soap in proportion of one pound of soap dissolved in 2 gallons of water very efficient. A good hand or power spray pump should be used in applying these and other insecticides.

No attempt has been made to give a complete list of even the commoner remedies now used in combating plant disease or insect pests, but only the very few which we are using in our daily farm practice. The reader is advised to refer to the publications of the Hawaii Experiment Station and the U. S. Department of Agriculture for very full and complete data on the subject in hand.

### Weekly Market Letter

Since the opening of the retail department by the Division, Island butter is in great demand. The butter made by the Boys' Industrial School in their new creamery is particularly in demand. The butter is churned twice a week and put on the market the same day in sanitary water-proof cartons. When other butter makers realize the importance of a uniformly good product and the selling power of a neat package, their butter will undoubtedly be in as great demand.

There is no change in egg prices. Large shipments of California eggs were brought in on the last boat, as well as several crates of poultry. Young poultry is in good demand, particularly the heavy breeds. This market does not want broilers of the White Leghorn breed and they have to be sold at lower prices than other kinds.

String beans, tomatoes and cucumbers are plentiful as usual at this season. Cabbage and sweet corn are unusually high. A small shipment of red cabbage from Hawaii brought a very good price. New Island potatoes are in demand due to the poor condition of most of the imported stock and producers should ship now before the new coast potatoes commence to come in.

The quality of the alligator pears in the market now is much better and prices more reasonable. Island grapes are plentiful and cheap, partly due to rather large shipments from Hilo. Very few limes have been received in the market lately and the price has advanced. There are more island cantaloupes in the market this year than ever before and the few who have been successful in raising them will make big profits. The flavor of the

Island cantaloupe is just as good, if not better than the imported.

The sales of the retail department of the Division during the past week have been very satisfactory, and a great deal of produce which could not be disposed of wholesale and which would probably have gone to waste has been sold at a price which will net the producer a good return and at the same time be a saving to the consumer.

Shipments of pineapples and bananas to the coast during the past month or two have been very satisfactory, but due to the fact that the early summer fruits are now getting in the market there, the demand for pineapple is diminishing as well as the price. The shipments from now on will therefore be smaller.

Stock owners will undoubtedly not the increase in the prices of feed over last week. This increase is due to a shortage of food in Honolulu caused by the strike of San Francisco stevedores. This will show what might be expected should these islands be cut off from mainland supplies by a foreign fleet in time of war.

A. T. LONGLEY,  
Marketing Superintendent.  
Honolulu, T. H. June 12, 1916.

### UNCLAIMED LETTERS

At Wailuku Postoffice, June 15, 1916.  
Enos, Manuel  
" William  
Souza, Mr. & Mrs.  
" Mr. Joe

CHIFFONIER FOR SALE: At the Hamakunapoko Teachers' Cottage.  
17-21.

## Honolulu Wholesale Produce Market Quotations

ISSUED BY THE TERRITORIAL  
MARKETING DIVISION.  
June 12, 1916.

### BUTTER AND EGGS.

Island butter, lb cartons... 30 to 40  
Eggs, select, dozen... 35  
Eggs, No. 1, dozen... 35  
Eggs, No. 2, Doz... 20 to 35  
Eggs, Duck, doz... 30

### POULTRY.

Broilers, lb (2 to 3 lbs)... 35 to 40  
Young roosters... 33 to 35  
Hens, lb... 27 to 28  
Turkeys, lb... 40  
Ducks, Muscovy, lb... 28 to 30  
Ducks, Pekin, lb... 28 to 30  
Ducks, Hawaiian, doz... 6.50 to 7.00

VEGETABLES AND PRODUCE.  
Beans, String, Green, lb... 32 1/2 to .33  
Beans, Wax, lb... 33 to .34  
Beans, Lima in pod, lb... 34 1/2  
Beans, Dry—

Maui Red, cwt, 5.00 to 5.25  
Calico, cwt... 4.50  
Small, white, cwt... 5.50  
Beets, doz bunches... 37  
Carrots, doz bunches... 41  
Cabbage, cwt... 3.50 to 4.00  
Corn, sweet 100 ears... 2.00 to 2.25  
Corn, Haw small yellow 38.00 to 40.00  
" large yellow 35.00 to 38.00

Rice, Japanese Seed, cwt... 3.70  
Rice, Hawaiian, cwt... 4.00  
Peanuts, small, lb... 44  
Peanuts, large, lb... 42  
Green Peppers, Bell, lb... 35 to 36  
Green Peppers, Chili, lb... 35  
Potatoes, Isl, Irish, (none in market)  
Potatoes, Isl, Irish, New, lb... 33  
Potatoes, sweet, cwt... 1.60 to 1.50  
Onions, Bermuda, lb... 35  
Taro, cwt... 50 to 75  
Taro, bunch... 15  
Tomatoes, lb... 32 to 33  
Green Peas, lb... 30  
Cucumbers, doz... 15 to 30  
Pumpkins, lb... 31 1/2 to 31 3/4

### FRUIT.

Alligator pears, doz... 50 to 150  
Bananas, Chinese, bunch... 30 to 50  
Bananas, Cooking, bunch... 75 to 125  
Breadfruit, doz (none in market)  
Figs, 100... 70  
Grapes, Isabella, lb... 38  
Oranges, Haw, (none in market)  
Limes, 100... 75 to 1.00  
Pineapples, cwt... 1.00  
Watermelons, lb... 33 to 34  
Pohas, lb... 35 to 40  
Papayas, lb... 31 to 31 1/4  
Strawberries, lb... 25

### LIVESTOCK.

Beef, cattle and sheep are not bought at live weight. They are taken by the meat companies dressed and paid for by weight dressed.  
Hogs, up to 150 lbs., lb... 10 to 11  
Hogs, 150 lbs and over, lb... 9 to 10

### DRESSED MEATS.

Beef, lb... 10 1/2 to 12  
Veal, lb... 12 to 13  
Mutton, lb... 14 to 15  
Pork, lb... 15 to 17

### HIDES, Wet Salted.

Steer, No. 1, lb... 15 1/2  
Steer, No. 2, lb... 14 1/2  
Kips, lb... 15 1/2  
Goat skins, white, each... 10 to 30  
Sheep skins, each... 10 to 20

### FEED.

The following are quotations on feed f.o.b. Honolulu:  
Corn small yellow, ton... 44.00  
" large yellow, ton... 43.00 to 44.00  
" cracked, ton... 44.00 to 45.00  
Bran, ton... 36.00  
Barley, ton... 36.00  
Scratch food, ton... 46.00  
Oats, ton... 37.00  
Wheat, ton... 44.00  
Middlings, ton... 43.00  
Hay, wheat, ton... 28.50 to 33.00  
Hay, alfalfa, ton... 28.50 to 30.00  
Alfalfa Meal, ton... 27.50 to 28.00

### GOOD POTATOES FROM MAKAWAO

Some excellent potatoes are being marketed at present by growers in Makawao and Kula, and are meeting with ready sale. The crop is said to be of better quality than for several years. By the Claudine last Saturday 81 bags of these spuds were shipped to Honolulu markets. Latest quotations are 3 cents per pound, which is considerably better than usual at this season.

### DIVORCE GRANTED

A divorce was granted yesterday by Judge Edging to Mrs. Maria Makihi from W. E. K. Makihi on grounds of failure to provide. The libellant was also granted the custody of the children and alimony in sum of \$10 per month.

LOST—One kit of automobile tools on road to Hailu. Finder please notify MAUI NEWS OFFICE. 17-31

### MASONS TO ATTEND CHURCH

The Free Masons, Lodge No. 984, Grand Lodge of Scotland, will worship at the Church of the Good Shepherd, at St. John's Day service, on Sunday morning, 11 o'clock. The Chaplain of the Lodge, Rev. J. Charles Villiers, will preach on "Lessons from the life of John the Baptist", and Bro. R. B. Dodge will assist in the service. Members of the Lodge are requested to assemble in the Parish house of the Church at a quarter before eleven o'clock.

### NEW GARAGE ORDINANCE IN FORCE

The garage ordinance which has been before the board of supervisors for several meetings past, finally passed at the meeting last Saturday. As the ordinance stands it is now unlawful to maintain a garage for automobiles within 100 feet of Market Street, Wailuku, between Main and Mill Streets; or on Main street, Lahaina, between Dunn and Mill streets, unless same has fireproof floor and the sides are fireproofed at least 6 feet from the floor.



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AND  
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NEW ERA HOMESTEAD FARM  
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HOUSE PAINTING  
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